



Faculty Details proforma for Gargi College

Title	Dr.	First Name	Kavita	Last Name	Vasdev	Photograph
Designation	Associate Professor					
Address	Department of Microbiology Gargi College(University of Delhi) Siri Fort Road, New Delhi- 110049					
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Educational Qualifications						
Degree	Institution				Year	
B.Sc(hons) Botany,	Gargi College, University of Delhi				1988	
M.Sc (Biotechnology)	J.N.U. New Delhi				1990	
Ph.D(Microbiology)	Microbiology Deptt. University of Delhi South Campus				1995	
Career Profile						
Faculty, Department of Microbiology Gargi College ,Since JULY 1995 TILL date 2018 Guest Faculty (1995-July-dec) –School of Biotechnology, J.N.U. ,New Delhi. 1996 Post –doctoral research work, with Dr. V.S. Chauhan at Malaria Lab, International Centre for Genetic Engineering and Biotechnology , (ICGEB), New Delhi						
Administrative Assignments						
Head of Department Microbiology , Gargi College(1997-1999) , (2007-2009)and 2017-till date. Convenor ,Attendance Committee (SCIENCE) 1999-2005. Member -Admission Committee (since 1996-1999,2006-2008,2014) sports committee (1998-2004) Member- Selection Committee- for appointment of Non- Academic staff-(2007). Proctor -2006-2009. Restructured the Syllabii for B.Sc . Microbiology , Delhi University -twice , in 2003 and again 2013.Besides being Examiner and paper setter for B.Sc (Hons) Microbiology examinations of University of Delhi.						
Areas of Interest / Specialization						
My research interests include, Biotechnology, Nanotechnology, Biochemistry Molecular Biology and Bioremediation. We have isolated white-rot fungi , analyzing the lignin degrading enzymes, like laccase produced by them and understanding the relationship between lignin degrading enzymes and their applications in decolorizing various poly aromatic dyes .Exploring the potential of laccases produced by white-rot fungi., for remediation of polluted colored toxic water generated by textile and dyeing industry. Further interested in purifying the enzymes and molecular cloning the genes for overproduction of enzymes for Industrial applications. We have also explored antimicrobial activities of silver nanoparticles – synthesized by green methods,						

using green tea leaves extract . Apart from proteins, the emerging field of RNA involvement in regulating various genes and pathways also hold my interest

Subjects Taught

B.Sc (hons) Microbiology III year :--1. Recombinant DNA technology and
2. Microbial biotechnology
B.Sc (hons) Microbiology II Year :---Molecular Biology, Cell Biology
B.Sc (hons) Microbiology I Year :-- Biochemistry.

As Guest Faculty at J.N.U. New delhi . M.Sc (Biotechnology) --1.- Cell biology 2.Biochemistry

Research Guidance

Guided 10 undergraduate students from three departments namely- B.Sc (chemistry), B.Sc(physics) and B.Sc(Microbiology) for Interdisciplinary Innovative Research Project on **Synthesis and Characterization of Novel nanomaterials using green methods for anti-microbial applications.**(2012-2013).

Besides this guiding three to four students from Microbiology Department ,for various short term research projects funded by STAR COLLEGE Grant received from DBT,GOI.,Since 2011, TILL 2015

Recent Publications

1. Gunjan Dhawan, Indra Mani, and **Kavita Vasdev** (2018) Epigenetic Remodeling of Delta FosB Protein: Its Role in Regulation of Stress. *Cell & Cellular Life Sciences Journal*. 3(1);1-9.
2. Verma D, **Vasdev K** (2018) Understanding The Potential of The Human Microbiome. *J Sys Biol Res* 1(1): dx.doi.org/10.16966/ jsbr.103
3. **Kavita V** (2017) DNA Biosensors-A Review. *J Bioengineer & Biomedical Sci* 7: 222. doi:10.4172/2155-9538.1000222
4. **Vasdev Kavita** et al. (2017), CRISPR/Cas-9 System Magnificent Tool for Genome Editing. *Int J Biotech & Bioeng* 3:9, 293-297
5. Mani I, **Kavita V** (2017) Toll-Like Receptor 11: Role in Post-Transplantation Renal Infections. *Single Cell Biol* 6:164. doi:10.4172/2168-9431.1000164
6. **Vasdev K** (2015) Development of Industrial Effluent Treatment System Using White-Rot Fungi, Isolated from Nature and their Enzymes. *J Bioengineer & Biomedical Sci* 6: 175. doi:10.4172/2155-9538.1000175

Conference Organization/ Presentations
<ul style="list-style-type: none"> • Attended Global Biotechnology Summit (2016), organized by Department of Biotechnology (DBT), Govt. of India, at Vigyan Bhavan, New Delhi. • Presented a poster entitled “white-rot fungi as saviors of environment” in the International conference organised by Department of Microbiology, on Nov.14 2017 at MDU, Rohtak.
Research Projects (Major Grants/Research Collaboration)
<p>(2008-2011) . Successfully completed Major research project Awarded by UGC (2008-2011) entitled “Screening white-rot fungi for Laccase production, characterization and its application in decolorization of dyes in waste water”.</p> <p>(2012-2013) . Completed Interdisciplinary Innovative Project Awarded by Delhi University(2012-2013) entitled -“Synthesis and Characterization of Novel nanomaterials using green methods for anti-microbial applications”,in Collaboration with Dr. Vandna Luthra of Department of Physics and Dr. Indu Sidhwani of Department of chemistry, Gargi College), Under the Mentorship of Dr. Mangla Joshi , Department of Biochemical engineering, IIT Delhi</p>
Awards and Distinctions
<ul style="list-style-type: none"> • Awarded DBT FELLOWSHIP, by Department of Biotechnology,(DBT), Govt. of India, (1988) for pursuing M.Sc. in Biotechnology. • Awarded Junior research fellow (JRF) , by University grants commission, after clearing the (UGC-CSIR-NET)examination conducted by Council for Scientific and Industrial Research (CSIR)(1990), JRF and Lecturership, both. Also Awarded senior fellowship (SRF) two years later by University grants commission. • Awarded Distinguished Alumni Award 2011 , by Gargi College .
Association With Professional Bodies
<p>1) Life Member Association of Microbiologists of INDIA (AMI)</p> <p>2) Member of American Society of Microbiology.(ASM 2013)</p>
Other Activities
<p>Editor of 1) International journal of Biosensor and Bioelectronics 2)) International journal of Nanoscience and Nanotechnology 3) European Journal of Sciences.</p> <p>Reviewer for International Journals-1.) BIOREMEDIATION- Francis and taylor Published from UK. 2.) Environmental Engineering and Management Journal</p>